CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/DVK/W.No.15/WMM/Gradation/2020-21 29.08.2020

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri.D.V.Kumar,** #657, 5th Main, L.G Ramanna Layout, Laggere, Bangalore - 56.
* Name of Work	:	Reserve fund for emergency works in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/80/2020-21 Dated : 03.08.2020
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	29.08.2020
Report Issue Date	:	29.08.2020

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	105	105	2.1	97.9	95-100
22.4	1280	1385	27.70	72.30	60-80
11.2	1160	2545	50.90	49.10	40-60
4.75	515	3060	61.20	38.80	25-40
2.36	750	3810	76.20	23.80	15-30
0.600	490	4300	86.00	14.00	8-22
0.075	500	4800	96.00	4.00	0-8

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

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M/s. Civil-Tech Consultants & Engineers

Pooja K.L.

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
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Job No.: CTCE/BBMP/DVK/W.No.15/WMM/AIV/2020-21

29.08.2020

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri.D.V.Kumar,** #657, 5th Main, L.G Ramanna Layout, Laggere, Bangalore - 56.
* Name of Work	:	Reserve fund for emergency works in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/80/2020-21 Dated : 03.08.2020
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part -4) : 1963 (RA-2016)
Date of Testing	:	29.08.2020
Report Issue Date	:	29.08.2020

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	304	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	21.71	21.85	21.78

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/DVK/W.No.15/WMM/Shape.T/2020-21 29.08.2020

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri.D.V.Kumar,** #657, 5th Main, L.G Ramanna Layout, Laggere, Bangalore - 56.
* Name of Work	:	Reserve fund for emergency works in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/80/2020-21 Dated : 03.08.2020
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part 1) : 1963 (RA 2016)
Date of Testing	:	29.08.2020
Report Issue Date	:	29.08.2020

Sl.No.	Description	Result
1	Flakiness Index	12.12%
2	Elongation Index	13.20%
3	Combined Flakiness & Elongation Index	25.32%

*Information is furnished by the Customer/Representative.

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Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/DVK/W.No.15/SDBC/Bitumen/2020-21

12.09.2020

BITUMEN CONTENT DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri.D.V.Kumar,** #657, 5th Main, L.G Ramanna Layout, Laggere, Bangalore - 56.
* Name of the Work	:	Reserve fund for emergency works in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/80/2020-21 Dated : 03.08.2020
Sample ID	:	Pot holes filling to roads in Ward No.15
Test Method as per	:	IRC:SP:11-1984
Date of Testing	:	12.09.2020
Report Issue Date	:	12.09.2020

BITUMEN CONTENT DETERMINATION

SL. No.	Description	Trail 1	Trail 2
1	Weight of Mixture before Test, g	500	500
2	Weight of Mixture after Test, g	472	471.5
3	Weight of Asphalt and Mineral matter	-	-
4	Weight of Mineral Matter, g.	-	-
5	Weight of Ash, g		
6	Weight of Bitumen Extracted, g. (corrected)	28	28.50
7	Bitumen content in %	5.60	5.70
8	Average	5.65	

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* Information is furnished by the Customer/Representative

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CIVIL ENGINEERING TESTING LABORATORY

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Job No.: CTCE/BBMP/DVK/W.No.15/SDBC/Bit/2020-21

12.09.2020

TEST REPORT ON BITUMEN CONTENT GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

* Customer	:	Asst. Executive Engineer, T.Dasarahalli Sub Division, BBMP,
* Agency	:	Sri.D.V.Kumar, #657, 5th Main, L.G Ramanna Layout, Laggere, Bangalore - 56.
* Name of Work	:	Reserve fund for emergency works in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/80/2020-21 Dated : 03.08.2020
* Sample ID	:	Pot holes filling to roads in Ward No.15
Test Method as per	:	IS-2386 and IRC:SP:11-1984
Date of Testing	:	12.09.2020
Report Issue Date	:	12.09.2020

GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-15 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
13.2	0	0	0	100	100
9.5	25.15	5.33	5.33	94.67	90-100
4.75	260.4	55.17	60.50	39.50	35-51
2.36	52.15	11.05	71.55	28.45	24-39
1.18	30.26	6.41	77.96	22.04	15-30
0.3	35.26	7.47	85.43	14.57	9-19
0.075	40.23	8.52	93.95	6.05	3-8

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-15 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
13.2	0	0	0	100	100
9.5	28.32	6.01	6.01	93.99	90-100
4.75	255.6	54.21	60.22	39.78	35-51
2.36	52.36	11.10	71.32	28.68	24-39
1.18	39.62	8.40	79.72	20.28	15-30
0.3	35.65	7.56	87.29	12.71	9-19
0.075	43.32	9.19	96.47	3.53	3-8

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